

-Tight

DETAIL F

Fatigue resistant weld

ELEVATION A

IDENTIFICATION NUMBER

Anchor bolt-thread top 203 mm and galvanize

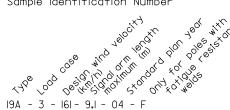
Finished grade

305 mm

Attach a stamped metal tag with each pole's indentification number to shaft above handhole. 7 mm high number minimum. A similar tag shall be attached to the top of the signal mast arm near the pole plate.

Use SL for special load case

Sample Identification Number



ROUTE -57 REGISTERED CIVIL ENGINEER April 28, 2005 C42892 PLANS APPROVAL DATE Exp.03-31-2006 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan To get to the Caltrans web site, go to: http://www.dot.ca.gov

To accompany plans dated

DETAIL S-SIDE TENON

2 NPS pipe, chased

See note 2

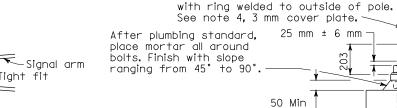
0

for wire protection-

SECTION A-A

PIPE TENONS

= wall thickness



For weld size calculations

T must be 5 mm or more

Weld

Size

8

10

8

Wall

Thickness

3.04

4.55

6.07

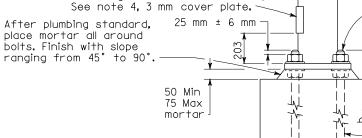
7.94

3.04

4.55

6.07

7.94

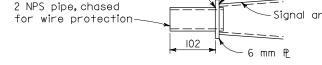


102 mm x 165 mm handhole reinforced

ASTM A307 anchor bolts Size of anchor bolts is "a x b x c"-refer to tables on standard plans.

DETAIL TS-TIP TENON

102 176



30° Max

contact

Pole or Arm

See Detail F

anale

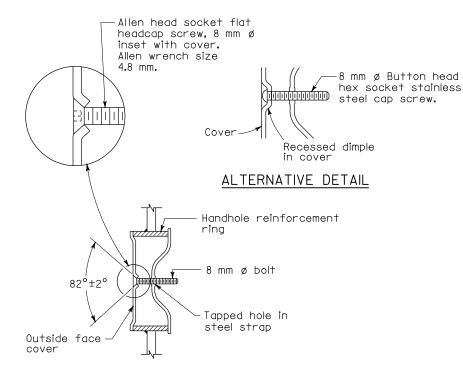
1.57 T

Min

DETAIL TL-TIP TENON

This detail supersedes Detail S when so designated

HANDHOLE AND ANCHORAGE DETAILS



TAMPER RESISTANT HANDHOLE COVER

SPECIFICATIONS

GENERAL NOTES

Caltrans

DESIGN: AASHTO Standard specifications for structural supports for highway signs, luminaires and traffic signals dated 2001.

Loading WIND LOADINGS : 161 km/h Unit Stresses STRUCTURAL STEEL : fy = 330 MPa tapered steel tube fy = 250 MPa unless otherwise noted

CONSTRUCTION: Standard Specifications and the Special Provisions

NOTES

- I. ASTM A307 anchor bolts are required for each pole. Provide a hex nut, leveling nut and 2 washers for each bolt.
- 2. Luminaire arms shall be round, tapered steel tubes, taper of II.45 mm/m to 11.66 mm/m with an end section 60 mm OD for mounting hardware. Extensions of 2 NPS Standard pipe and 178 mm long may be used at the option of the manufacturer. When low pressure sodium luminaires are required, the extension shall be 381 mm.
- 3. Signal arms shall be round, tapered steel tubes, maximum taper
- 4. Handhole reinforcement ring shall be 6 mm x 51 mm for 3.04 mm to 6.07 mm poles, 10 mm \times 51 mm for 7.94 mm.
- 5. Handholes for lighting standards shall be located on the downstream side of the pole unless otherwise noted on the plans.
- 6. Detail F, fatigue resistant weld, is required at signal arm plate and pole base plate.
- 7. Cap screws shall be tightened by the turn-of-nut method $\ensuremath{\text{I/3}}$ turn to form a snug tight condition. No washer will be required.
- 8. During pole erection, the post shall be raked as necessary with the use of leveling nuts to provide a plumb pole axis.
- 9. When Project Plans show a lesser number of signs and signals, the Project Plans shall prevail.
- 10. Outside diameter, wall thickness, and corresponding section properties at the base of traffic signal poles and arms as shown in the Standard Plans are minimums. Unless otherwise specified, alternative sections require approval by the Engineer.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARDS **DETAILS No. 1)**

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP ES-7M DATED APRIL 28, 2005 SUPERSEDES RSP ES-7M DATED JANUARY 24,2005 AND STANDARD PLAN ES-7M DATED JULY 1, 2004-PAGE 463 OF THE STANDARD PLANS BOOK DATED JULY 2004

REVISED STANDARD PLAN RSP ES-7M